	Hits	Ref #	Search Text	Type
1	1119	S1	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
2	1	S2	S1 same (density adj variation$1)	BRS
3	67	S3	S1 same density	BRS
4	3	S4	"6301395".pn.	BRS
5	3	S5	("5666443" | "5712924" | "5784500").PN.	BRS
6	3	S6	("6301395").URPN.	BRS
7	1121	S7	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
8	13	S8	S7 same (density with correct$3)	BRS
9	9	S9	S7 same (mtf with correct$3)	BRS
10	11	S10	S7 same mtf	BRS
11	36	S11	S7 same (density with enhanc$4)	BRS
12	38	S12	S7 same ((density or color) with correct$3)	BRS
13	0	S13	S7 same ((density or color) adj mask)	BRS
14	0	S14	S7 same ((density or color) with mask)	BRS
15	624	S15	382/266.ccls.	BRS
16	222	S17	S15 and density	BRS
17	151	S18	S17 and (mask or filter)	BRS
18	1121	S19	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
19	32	S20	S19 same laplacian	BRS
20	46	S21	S19 and ((modulation adj transfer adj function) or mtf)	BRS
21	1121	S22	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
22	13	S23	S22 same (density with correct$3)	BRS
23	10069	S24	image$1 same (density with correct$3)	BRS
24	21	S25	S22 same ((shad$3 or variation$1 or tone) with (correct$3))	BRS
25	105	S26	("5825937" "5278954" "5515180" "5774578" "5799111" "5946454" "5959656" "6181437" "4969203" "5212741" "5311600" "5602934" "5800075" "5933540" "6091511" "6227725" "4764971" "5218649" "5361330" "5390264" "5668638" "5768482" "5812702" "5822469" "5978518" "5987172" "6075926" "6108453" "4363104" "4433438" "4499598" "4519041" "4561104" "4786917" "4794531" "4941190" "4958217" "4984279" "4989060" "5054100" "5224177" "5229864" "5237621" "5243444" "5268580" "5276532" "5296709" "5319742" "5331442" "5339170").pn.	BRS

	Hits	Ref #	Search Text	Type
26	2608	S27	382/266,260,274,275.ccls.	BRS
27	538	S28	S27 and ((density or color) with correct$3)	BRS
28	38	S29	S28 and (mtf with correct$3)	BRS
29	128	S30	S28 and (max or high) adj (density or luminance or value)	BRS
30	197	S31	S28 and ((shad$3 or dark) with correct$3)	BRS
31	828	S33	358/532,3.27,521,531,538.ccls.	BRS
32	245	S34	358/3.27.ccls.	BRS
33	20	S35	("4051536" | "4111823" | "4571635" | "4618990" | "4633327" | "4641244" | "4730221" | "4926251" | "4953114" | "4968578" | "4969053" | "4992831" | "5045952" | "5054100" | "5122843" | "5126839" | "5134667" | "5166810" | "5251267" | "5331442").PN.	BRS
34	1121	S36	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
35	1	S37	("6711285").PN.	IS&R
36	20	S38	S36 same (morph$8 or dilat$3)	BRS
37	21	S39	S33 and (morph$8 or dilat$3)	BRS
38	17	S40	gray adj scale adj dilation	BRS
39	23	S41	gray adj scale adj (dilation or erosion)	BRS
40	1121	S42	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
41	1525	S43	morph$8 same (dilat$3 or erosion)	BRS
42	25	S44	S42 and S43	BRS
43	1121	S45	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
44	1525	S46	morph$8 same (dilat$3 or erosion)	BRS
45	25	S47	S45 and S46	BRS
46	1121	S48	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
47	15	S49	S48 same (dilat$3 or erosion$1)	BRS
48	3965	S50	image$1 with ((edge$1 or contour$1 or boundar$3) with (sharpen$3 or enhanc$4))	BRS
49	2608	S52	382/266,260,274,275.ccls.	BRS
50	828	S53	358/532,3.27,521,531,538.ccls.	BRS
51	2251	S54	(S52 or S53) and (edge$1 or contour$1 or boundar$3)	BRS
52	32	S51	S50 same (dilat$3 or erosion$1)	BRS
53	131	S55	S54 and (dilat$3 or erosion$1)	BRS
54	1121	S56	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS

	Hits	Ref #	Search Text	Type
55	129	S57	S56 same (smooth$3 or (shad$3 adj correct$3))	BRS
56	1121	S58	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
57	9	S59	S58 and ((enhanc$4 or sharpen$3) adj correct$3)	BRS
58	4	S60	S58 same dilation	BRS
59	63	S61	(edge$1 adj detect$3) same dilation	BRS
60	1121	S62	image$1 with ((edge$1 or contour$1 or boundar$3) adj (sharpen$3 or enhanc$4))	BRS
61	369	S63	S62 and smooth$3	BRS
62	122	S64	S62 same smooth$3	BRS
63	15	S65	S64 same densit$3	BRS
64	11	S66	S62 same segmentat$3	BRS
65	0	S67	S62 same (constant adj enhanc$4)	BRS
66	1	S68	S62 same (enhanc$4 adj density)	BRS

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1 **Fuzzy LUM filters [image denoising/enhancement applications]**
Yao Nie; Barner, K.E.;
Acoustics, Speech, and Signal Processing, 2004. Proceedings. (ICASSP '04). II International Conference on , Volume: 2 , 17-21 May 2004
Pages:ii - 893-6 vol.2

[Abstract] [PDF Full-Text (404 KB)] **IEEE CNF**

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2 **Fuzzy anisotropic diffusion for speckle filtering**
Aja, S.; Alberola, C.; Ruiz, A.;
Acoustics, Speech, and Signal Processing, 2001. Proceedings. (ICASSP '01). 2 IEEE International Conference on , Volume: 2 , 7-11 May 2001
Pages:1261 - 1264 vol.2

[Abstract] [PDF Full-Text (752 KB)] **IEEE CNF**

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3 **On color image smoothing processing based an color space transformation**
Zhu Shangdong; Ai Zhibin; Chen Xiyuan;
Vehicle Electronics Conference, 1999. (IVEC '99) Proceedings of the IEEE International , 6-9 Sept. 1999
Pages:271 - 274 vol.1

[Abstract] [PDF Full-Text (220 KB)] **IEEE CNF**

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4 **Projected mean curvature smoothing for vector-valued imagery**
Yezzi, A., Jr.;
Image Analysis and Interpretation, 1998 IEEE Southwest Symposium on , 5-7 1998
Pages:121 - 126

[Abstract] [PDF Full-Text (996 KB)] **IEEE CNF**

Terms used **image enchancement dilation** Found **1,228** of **147,793**

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1 Time dilation visualization in relativity
Ping-Kang Hsiung, Robert H. Thibadeau, Christopher B. Cox, Robert H. P. Dunn
November 1990 **Proceedings of the 1990 ACM/IEEE conference on Supercomputing**
Full text available: pdf(2.20 MB) Additional Information: full citation, abstract, references

This work extends our previous effort in visualizing the spatial aspect of relativistic effects, and treats the phenomenon of time dilation; an inherent temporal effect of special relativity.Here, we demonstrate through still-frame images and live animations that in *observing* the viewing independent time dilation, the finite light transit time involved in performing the observation makes the *observed* time dilation also depend on the viewing condition.As we introduce the physics of ...

2 Non-photorealistic rendering: A stained glass image filter
David Mould
June 2003 **Proceedings of the 14th Eurographics workshop on Rendering**
Full text available: pdf(3.68 MB) Additional Information: full citation, abstract, references

Medieval stained glass windows are a stylized artform that has not previously been thoroughly treated in the computer graphics literature. In this paper, we present an automated method for transforming an arbitrary image into a stained-glass version of that image. The key issues in designing a stained glass window are the tile boundaries and tile colors. We use erosion and dilation operators to manipulate and smooth an initial region segmentation tiling; we choose tile colors from the palette of ...

3 Cellular image processing techniques for VLSI circuit layout validation and routing
T. N. Mudge, R. A. Rutenbar, R. M. Lougheed, D. E. Atkins
January 1982 **Proceedings of the 19th conference on Design automation**
Full text available: pdf(769.83 KB) Additional Information: full citation, abstract, references, citings, index terms

The architecture of the Cytocomputer?, an existing special-purpose, pipelined cellular image processor, is described. A formalism used to express cellular operations on images is then given. Cellular image processing algorithms are then developed that perform (1) design rule checks (DRC's) on VLSI circuit layouts, and (2) Lee-type wire routing. Two sets of cellular image processing transformations for checking the Mead and Conway design rules and for Lee-routing have been defined and used t ...

4 Fuzzy distances and image processing
Isabelle Bloch, Henri Maitre
February 1995 **Proceedings of the 1995 ACM symposium on Applied computing**
Full text available: pdf(577.63 KB) Additional Information: full citation, references, index terms

Keywords: fuzzy distances, fuzzy sets, image processing

5 Work-preserving emulations of fixed-connection networks

Richard R. Koch, F. T. Leighton, Bruce M. Maggs, Satish B. Rao, Arnold L. Rosenberg, Eric J. Schwabe

January 1997 **Journal of the ACM (JACM)**, Volume 44 Issue 1

Full text available: pdf(719.89 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: graph embeddings, network emulations, parallel architectures, processor arrays

6 Cost Trade-offs in Graph Embeddings, with Applications

Jia-Wei Hong, Kurt Mehlhorn, Arnold L. Rosenberg

October 1983 **Journal of the ACM (JACM)**, Volume 30 Issue 4

Full text available: pdf(1.09 MB) Additional Information: full citation, references, citings, index terms

7 Microarray image processing based on clustering and morphological analysis

Shuanhu Wu, Hong Yan

January 2003 **Proceedings of the First Asia-Pacific bioinformatics conference on Bioinformatics 2003 - Volume 19**

Full text available: pdf(343.63 KB) Additional Information: full citation, abstract, references, index terms

Microarrays allow the monitoring of expressions for tens of thousands of genes simultaneously. Image analysis is an important aspect for microarray experiments that can affect subsequent analysis such as identification of differentially expressed genes. Image processing for microarray images includes three tasks: spot gridding, segmentation and information extraction. In this paper, we address the segmentation and information extraction problems, and proposed a new segmentation method based on K ...

Keywords: DNA chip data processing, DNA gene expressions, K-means clustering, mathematical morphology, microarray image segmentation

8 Interactive volume segmentation with the PAVLOV architecture

Kevin Kreeger, Arie Kaufman

October 1999 **Proceedings of the 1999 IEEE symposium on Parallel visualization and graphics**

Full text available: pdf(258.78 KB) Additional Information: full citation, abstract, references, citings, index terms

We propose a new paradigm for interactive volume visualization which allows enhanced exploration of datasets through the use of real-time volume processing (e.g., segmentation) tightly coupled with rendering. We show examples of how this paradigm supports a new way of examining a dataset by providing interactive visual feedback to segmentation parameter adjustment. We have developed a hardware co-processor, called PAVLOV, based on a SIMD mesh architecture. It supports our paradigm b ...

Keywords: 2D mesh array, SIMD, feature extraction, floodfill, segmentation, volume processing, volume rendering

9 Volume rendering I: Comparison of morphological pyramids for multiresolution MIP

volume rendering
Jos B. T. M. Roerdink
May 2002 **Proceedings of the symposium on Data Visualisation 2002**

Full text available: pdf(273.82 KB) Additional Information: full citation, abstract, references, index terms

We recently proposed a multiresolution representation for maximum intensity projection (MIP) volume rendering based on morphological adjunction pyramids which allow progressive refinement and have the property of perfect reconstruction. In this algorithm the pyramidal analysis and synthesis operators are composed of morphological erosion and dilation, combined with dyadic downsampling for analysis and dyadic upsampling for synthesis. Here we introduce an alternative pyramid scheme in which a mor ...

10 Session 4: video processing and transformation: Painting with looks: photographic images from video using quantimetric processing
Steve Mann, Corey Manders, James Fung
December 2002 **Proceedings of the tenth ACM international conference on Multimedia**

Full text available: pdf(861.14 KB) Additional Information: full citation, abstract, references, citings

When we ask the fundamental question "What does a camera measure?", we arrive at the concept of quantimetric imaging, which uses a new quantimetric unit, *q*, characteristic of a particular camera (e.g. each kind of camera defines its own quantimetric unit *q* based on its spectral response, etc.). Fluctuations in interframe exposures, along a sequence of images, give rise to a *comparametric* relationship between successive pairs of images. This allows us to estimate the response ...

Keywords: comparametric equations, comparametrics, image processing, multiple exposures, video

11 Session 5: Multi-chart geometry images
P. V. Sander, Z. J. Wood, S. J. Gortler, J. Snyder, H. Hoppe
June 2003 **Proceedings of the Eurographics/ACM SIGGRAPH symposium on Geometry processing**

Full text available: pdf(19.27 MB) Additional Information: full citation, abstract, references, index terms

We introduce multi-chart geometry images, a new representation for arbitrary surfaces. It is created by resampling a surface onto a regular 2D grid. Whereas the original scheme of Gu et al. maps the entire surface onto a single square, we use an atlas construction to map the surface piecewise onto charts of arbitrary shape. We demonstrate that this added flexibility reduces parametrization distortion and thus provides greater geometric fidelity, particularly for shapes with long extremities, hig ...

12 Hierarchical volume analysis and visualization based on morphological operators
Christoph Lürig, Thomas Ertl
October 1998 **Proceedings of the conference on Visualization '98**

Full text available: pdf(1.37 MB) Additional Information: full citation, references, citings, index terms
Publisher Site

13 Extracting surfaces from fuzzy 3D-ultrasound data
Georgios Sakas, Stefan Walter
September 1995 **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Full text available: pdf(867.39 KB) ps(9.39 MB) Additional Information: full citation, references, citings, index terms

Keywords: 3D ultrasound, morphology, multiresolution analysis, volume rendering

14 Fuzzy sets in image processing
Isabelle Bloch
April 1994 **Proceedings of the 1994 ACM symposium on Applied computing**
Full text available: pdf(896.05 KB) Additional Information: full citation, references, citings, index terms

Keywords: data fusion, decision, fuzzy clustering, fuzzy mathematicl morphology, fuzzy sets, image processing, multimodality medical imaging

15 Interacting with images: Lazy snapping
Yin Li, Jian Sun, Chi-Keung Tang, Heung-Yeung Shum
August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3
Full text available: pdf(548.18 KB) Additional Information: full citation, abstract, references

In this paper, we present *Lazy Snapping*, an interactive image cutout tool. Lazy Snapping separates coarse and fine scale processing, making object specification and detailed adjustment *easy*. Moreover, Lazy Snapping provides instant visual feedback, *snapping* the cutout contour to the true object boundary efficiently despite the presence of ambiguous or low contrast edges. Instant feedback is made possible by a novel image segmentation algorithm which combines graph cut with p ...

Keywords: Graph Cut, Image Cutout, Interactive Image Segmentation, User Interface

16 Imaging vector fields using line integral convolution
Brian Cabral, Leith Casey Leedom
September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(1.48 MB) Additional Information: full citation, references, citings, index terms

Keywords: convolution, filtering, flow fields, periodic motion filtering, rendering, special effects, texture synthesis, visualization

17 Digital images: Connected component labeling based on the EVM model
D. Ayala, J. Rodríguez, A. Aguilera
April 2002 **Proceedings of the 18th spring conference on Computer graphics**
Full text available: pdf(407.93 KB) Additional Information: full citation, abstract, references, index terms

This paper presents a new approach to achieve connected component labeling on both binary images and volumes by using the Extreme Vertices Model (EVM), a representation model for orthogonal polyhedra, applied to digital images and volume datasets recently. In contrast with previous techniques, this method does not use a voxel-based approach but deals with the inner sections of the object. This approach allows us to build data size-independent algorithms and work with volumes from range data or s ...

18 Antialiasing of curves by discrete pre-filtering
A. E. Fabris, A. R. Forrest
August 1997 **Proceedings of the 24th annual conference on Computer graphics and interactive techniques**
Full text available: pdf(92.37 KB) Additional Information: full citation, references, citings, index terms

Keywords: Be´zier curves, pre-filtering

19 Flash & color: Digital photography with flash and no-flash image pairs 

Georg Petschnigg, Richard Szeliski, Maneesh Agrawala, Michael Cohen, Hugues Hoppe, Kentaro Toyama

August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3

Full text available: pdf(1.39 MB) Additional Information: full citation, abstract, references, citings

Digital photography has made it possible to quickly and easily take a pair of images of low-light environments: one with flash to capture detail and one without flash to capture ambient illumination. We present a variety of applications that analyze and combine the strengths of such flash/no-flash image pairs. Our applications include denoising and detail transfer (to merge the ambient qualities of the no-flash image with the high-frequency flash detail), white-balancing (to change the color ton ...

Keywords: Noise removal, bilateral filtering, detail transfer, flash photography, image fusion, image processing, red-eye removal, sharpening, white balancing

20 Image inpainting 

Marcelo Bertalmio, Guillermo Sapiro, Vincent Caselles, Coloma Ballester

July 2000 **Proceedings of the 27th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(1.80 MB) Additional Information: full citation, abstract, references, citings, index terms

Inpainting, the technique of modifying an image in an undetectable form, is as ancient as art itself. The goals and applications of inpainting are numerous, from the restoration of damaged paintings and photographs to the removal/replacement of selected objects. In this paper, we introduce a novel algorithm for digital inpainting of still images that attempts to replicate the basic techniques used by professional restorators. After the user selects the regions to be restored, the algorithm ...

Keywords: anisotropic diffusion, image restoration, inpainting, isophotes

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